

Claims

[c1] What is claimed is:

1. A storage device fastening apparatus for fastening a storage device inside a casing, the storage device having a plurality of first holes, the storage device fastening apparatus comprising:

a frame installed inside the casing for supporting the storage device, the frame having a plurality of second holes and at least a second hook, positions of the second holes corresponding to the first holes, the second hook being located on a side of the frame not facing the storage device;

a fastening base detachably installed on the frame for affixing the storage device to the frame, the fastening base having a plurality of bumps, the bumps being formed at positions on a side of the fastening base facing the frame corresponding to the second holes for penetrating through the second holes and inserting in the first holes; and

a sliding portion movably installed on the fastening base for affixing the fastening base to the frame, the sliding portion having at least a first hook corresponding to the second hook;

wherein the sliding portion is capable of residing at a first fixed position and a second fixed position with respect to the fastening base, when the sliding portion resides at the first fixed position, the first hook is separated from the second hook, when the sliding portion resides at the second fixed position, the first hook and the second hook are fastened to each other so as to affix the fastening base to the frame.

[c2] 2.The storage device fastening apparatus of claim 1 wherein the frame further comprises at least a loading portion formed on a side of the frame facing the storage device for loading the storage device.

[c3] 3.The storage device fastening apparatus of claim 1 wherein the frame is further installed with a plurality of positioning holes, and the fastening base is further installed with a plurality of positioning bumps, the location of the positioning bumps corresponding to the positioning holes for providing positioning functionality when the fastening base is installed onto the frame.

[c4] 4.The storage device fastening apparatus of claim 1 wherein the sliding portion further comprises at least a first track and the fastening base further comprises at least a second track, the location of the second track corresponding to the first track, the sliding portion slid-

ing with respect to the fastening base along the first and the second tracks to move between the first fixed position and the second fixed position.

[c5] 5.The storage device fastening apparatus of claim 1 wherein the fastening base further comprises an elastic body having a sliding positioning bump, and the sliding portion is further installed with a first sliding positioning hole and a second sliding positioning hole, when the sliding portion resides at the first fixed position, a location of the first sliding positioning hole corresponds to the sliding positioning bump, when the sliding portion resides at the second fixed position, a location of the second sliding positioning hole corresponds to the sliding positioning bump.

[c6] 6.The storage device fastening apparatus of claim 1 wherein the sliding portion further comprises a first assembly error prevention structure formed at one end of the sliding portion and the fastening base further comprises a second assembly error prevention structure, when the sliding portion is to be assembled onto the fastening base, the first and the second assembly error prevention structures prevent the sliding portion from sliding with respect to the fastening base, so as to avoid assembly direction error.

[c7] 7.The storage device fastening apparatus of claim 1 wherein the fastening base further comprises a first stop block and a second stop block each formed at one end of the fastening base respectively for preventing the sliding portion from detaching from the fastening base when the sliding portion moves between the first and the second fixed positions.

[c8] 8.The storage device fastening apparatus of claim 7 wherein the first stop block has an inclined surface adapted for assembling of the sliding portion to the fastening base.

[c9] 9.A storage device fastening apparatus for fastening a storage device inside a casing, the storage device having two sides, each side having a plurality of first holes, the storage device fastening apparatus comprising:
a first frame installed inside the casing for supporting one side of the storage device, the first frame comprising at least a first loading portion and a plurality of first elastic bodies, the first loading portion being formed on one side of the first frame facing the storage device for loading the storage device, each first elastic body having at least a first bump, the first bump being formed at a position corresponding to a first hole on one side of the storage device for inserting into the first hole;
a second frame installed inside the casing for supporting

another side of the storage device, the second frame having a plurality of second holes and at least a second hook, positions of the second holes corresponding to the first holes on another side of the storage device, the second hook being located on a side of the frame not facing the storage device;

a fastening base detachably installed on the second frame for affixing the storage device to the frame, the fastening base having a plurality of second bumps, the second bumps being formed at positions on a side of the fastening base facing the second frame corresponding to the second holes for penetrating through the second holes and inserting in the first holes; and

a sliding portion movably installed on the fastening base for affixing the fastening base to the second frame, the sliding portion having at least a first hook corresponding to the second hook;

wherein the sliding portion is capable of residing at a first fixed position and a second fixed position with respect to the fastening base, when the sliding portion resides at the first fixed position, the first hook is separated from the second hook, when the sliding portion resides at the second fixed position, the first hook and the second hook are fastened to each other so as to affix the fastening base to the frame.

- [c10] 10.The storage device fastening apparatus of claim 9 wherein the second frame further comprises at least a second loading portion formed on a side of the second frame facing the storage device for loading the storage device.
- [c11] 11.The storage device fastening apparatus of claim 9 wherein the second frame is further installed with a plurality of positioning holes, and the fastening base is further installed with a plurality of positioning bumps, the location of the positioning bumps corresponding to the positioning holes for providing positioning functionality when the fastening base is installed onto the second frame.
- [c12] 12.The storage device fastening apparatus of claim 9 wherein the sliding portion further comprises at least a first track, and the fastening base further comprises at least a second track, the location of the second track corresponding to the first track, the sliding portion sliding with respect to the fastening base along the first and the second tracks so as to move between the first fixed position and the second fixed position.
- [c13] 13.The storage device fastening apparatus of claim 9 wherein the fastening base further comprises a elastic body having a sliding positioning bump, and the sliding

portion is further installed with a first sliding positioning hole and a second sliding positioning hole, when the sliding portion resides at the first fixed position, a location of the first sliding positioning hole corresponds to the sliding positioning bump, when the sliding portion resides at the second fixed position, a location of the second sliding positioning hole corresponds to the sliding positioning bump.

[c14] 14.The storage device fastening apparatus of claim 9 wherein the sliding portion further comprises a first assembly error prevention structure formed at one end of the sliding portion and the fastening base further comprises a second assembly error prevention structure, when the sliding portion is to be assembled onto the fastening base, the first and the second assembly error prevention structures prevent the sliding portion from sliding with respect to the fastening base, so as to avoid assembly direction error.

[c15] 15.The storage device fastening apparatus of claim 9 wherein the fastening base further comprises a first stop block and a second stop block each formed at one end of the fastening base respectively for preventing the sliding portion from detaching from the fastening base when the sliding portion moves between the first and the second fixed positions.

[c16] 16. The storage device fastening apparatus of claim 15 wherein the first stop block has an inclined surface adapted for assembling of the sliding portion to the fastening base.